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IS : 4675 - 1968

Indian Standard

**SPECIFICATION FOR LIGHT SPLIT-HOOK
DEVICE FOR ARTIFICIAL LIMBS**

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INDIAN STANDARDS INSTITUTION
MANAK BHAVAN, 9 BAHADUR SHAH ZAFAR MARG
NEW DELHI 1

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SPECIFICATION FOR LIGHT SPLIT-HOOK DEVICE FOR ARTIFICIAL LIMBS

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Indian Standard

SPECIFICATION FOR LIGHT SPLIT-HOOK DEVICE FOR ARTIFICIAL LIMBS

0. FOREWORD

0.1 This Indian Standard was adopted by the Indian Standards Institution on 20 June 1968, after the draft finalized by the Artificial Limbs Sectional Committee had been approved by the Consumer Products Division Council.

0.2 The formulation of Indian Standards on artificial limbs, prosthetic and orthotic appliances and rehabilitation equipment has been taken up at the instance of the Advisory Committee for Development of Surgical Instruments, Equipment and Appliances, Government of India.

0.3 Terminal devices for artificial limbs are working accessories to be fitted into the dress or working arm of an amputee of the upper extremity. These devices aid the amputee to perform some of the normal functions of the hand.

0.4 The light split-hook device is used by amputees for performing some light duty work. The grip at the jaw is provided by tying rubber bands around the jaws near the actuating lever. Nothing has been stipulated in this standard about the requirements for these rubber bands.

0.5 This standard is one of a series on terminal devices for artificial limbs. Other specifications published so far in this series appear on P 6.

0.6 This standard is a necessary adjunct to IS : 4534-1968.*

0.7 This standard contains a clause 7.1 which calls for an agreement between the purchaser and the supplier.

0.8 For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated, expressing the result of a test, shall be rounded off in accordance with IS : 2-1960†. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

1. SCOPE

1.1 This standard specifies the requirements pertaining to material, shape, dimensions, workmanship and finish for light split-hook terminal device.

*Specification for adapter for terminal devices, artificial limbs.

†Rules for rounding off numerical values (*revised*).

2. MATERIAL

2.1 The device shall be manufactured from carbon steel conforming to Class 2 of IS:1875-1966*. The pivot pin shall be manufactured from steel conforming to IS:1148-1964†.

3. SHAPE AND DIMENSIONS

3.1 The general shape and dimensions of the light split hook shall be as given in Fig. 1.

4. MANUFACTURE, WORKMANSHIP AND FINISH

4.1 The two halves of the hook shall be cleanly forged or stamped in one piece. They shall be well shaped and free from cracks, seams, pits, burrs and other surface flaws. All sharp edges shall be removed. The serrations shall engage evenly when the jaws are closed. The opening and closing movements of the jaws shall be smooth and without jerks. The hook shall be plated chromium over nickel and the plating shall conform to Grade C of IS:1068-1958‡.

5. TESTS

5.1 Drop Test—The split hook shall be dropped from a height of 2 m, with the jaws pointing downwards, on a hard floor. This shall be carried out 5 times. At the end of this test, the appliance shall not be damaged or destroyed.

5.2 Test for Strength of Hook—The hook shall be held in a vice with its axis vertical and jaws downwards. A load of 100 kgf shall be hung from the hook for a period of 5 minutes. On removal of the load, the hook shall show no sign of damage.

6. MARKING

6.1 The hook shall be clearly and legibly marked with the manufacturer's name, initials or recognized trade-mark.

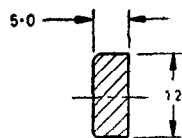
6.1.1 The hook may also be marked with the ISI Certification Mark.

NOTE—The use of the ISI Certification Mark is governed by the provisions of the Indian Standards Institution (Certification Marks) Act, and the Rules and Regulations made thereunder. Presence of this mark on products covered by an Indian Standard conveys the assurance that they have been produced to comply with the requirements of that standard, under a well-defined system of inspection, testing and quality control during production. This system, which is devised and supervised by ISI and operated by the producer, has the further safeguard that the products as actually marketed are continuously checked by ISI for conformity to the standard. Details of conditions, under which a licence for the use of the ISI Certification Mark may be granted to manufacturers or processors, may be obtained from the Indian Standards Institution.

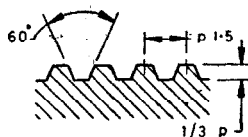
*Specification for carbon, steel billets, blooms and slabs for forgings (revised).

†Specification for rivet bars for structural purposes (revised).

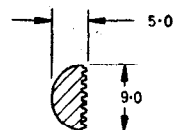
‡Specification for copper, nickel and chromium electroplated coatings.



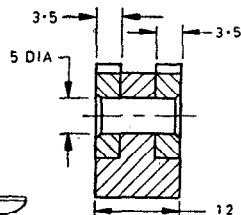
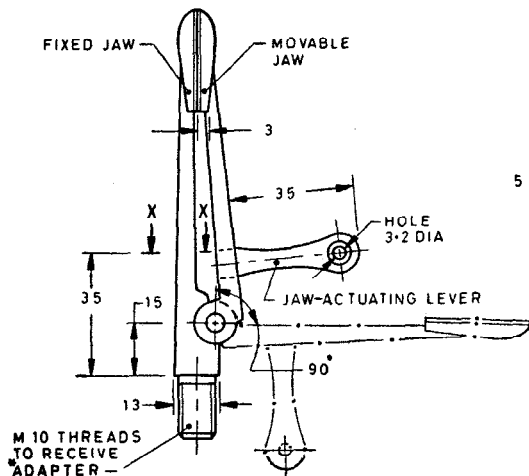
SECTION XX



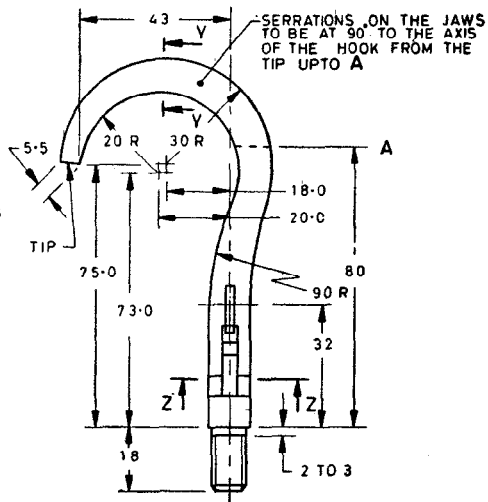
DETAILS OF
SERRATIONS



SECTION YY
ON ONE JAW



SECTION ZZ



*See IS : 4534 - 1968 Specification for adapter for terminal devices, artificial limbs.

All dimensions in millimetres.

FIG. 1 LIGHT SPLIT-HOOK DEVICE FOR ARTIFICIAL LIMBS

7. PACKING

7.1 The hook shall be packed in the manner as agreed to between the purchaser and the supplier.

INDIAN STANDARDS

ON

Terminal Devices for Artificial Limbs

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4534-1968	Adapter for terminal devices, artificial limbs	2·00
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